



B.S.C. Inc.
Blended Specialty Chemicals

BSC INC.
109 IBER ROAD, UNIT #3
OTTAWA, ON., K2S 0X5
CANADA
613-831-7343

PRODUCT: Vinegar

CODE: BSCVINEGAR

SECTION 01: IDENTIFICATION

Product Identifier..... Vinegar
 Other means of Identification..... BSCVINEGAR
 Chemical Family..... Blend.
 Recommended use of product and any ... No known restrictions.
 restrictions
 Initial Supplier Identifier..... BSC Inc.
 Blended Specialty Chemicals
 109 Iber Road, Unit #3
 Ottawa ON
 K2S 0X5
 613-831-7343
 Emergency telephone number and any ... BSC Inc: 613-831-7343 (M-F; 9:00 - 5:00). In the event of a transport emergency contact
 restrictions on the use of that number CANUTEC at (613) 996-6666. .

SECTION 02: HAZARD IDENTIFICATION



Hazard Classification..... Flammable Liquids — Category 3. Serious Eye Damage — Category 1. Skin Corrosion — Category 1. Acute Toxicity (Dermal) — Category 4.
 Signal Word..... DANGER.
 Hazard Statements:..... H226 Flammable liquid and vapour. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
 Precautionary Statements:
 Prevention..... P210 Keep away from all sources of heat, sparks, open flames, hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof equipment . P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
 Response..... P301+P330+P331 IF SWALLOWED rinse mouth, DO NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove to fresh air and Keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a Poison Control Centre. P312 Call a POISON CONTROL CENTER if you feel unwell. P321 Specific treatment see section 4 on this SDS. P362+P364 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothes before reuse. P370+P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish.
 Storage..... P403+P235 Store in well ventilated place. Keep cool. P405 Store locked up.
 Disposal..... P501 Dispose of contents and empty containers in accordance with local regulations.
 Other hazards..... May be harmful if swallowed. Harmful to aquatic with long lasting effects.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Acetic acid	64-19-7	5 - 10
<<The actual concentration(s) withheld as a trade secret>>		

SECTION 04: FIRST-AID MEASURES

FIRST AID MEASURES:
 Ingestion..... DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing. Place victim in recovery position to reduce chance of vomiting.

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SECTION 04: FIRST-AID MEASURES

Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Place victim in recovery position to avoid aspiration into the lungs in case of vomiting.
Skin Contact.....	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Eye Contact.....	Get IMMEDIATE medical attention. Immediately flush eyes with plenty of water, lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse until emergency medical services have arrived. Rinse eyes for at least 15 minutes.
Most important symptoms and effects, both acute and delayed	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease. Asthma. Skin disorders and Allergies. May cause drowsiness, dizziness, headache, nausea or vomiting. Burns to eyes is possible. Burning pain and severe corrosive skin damage. Prolonged or repeated contact may cause skin sensitization. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Medical attention and special treatment....	Treat symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media.....	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media.....	None known.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	By fire: Protect against potentially toxic and irritating fumes. Noxious and toxic fumes may form. Use water spray to cool containers. Product vapour may be corrosive. Water runoff may be corrosive. Dike and collect water used to fight fire for neutralization before release. Water streams should not be directed to the liquid, as this will cause the liquid to boil and generate more vapour.
Special protective equipment and precautions for fire-fighters	Use self-contained breathing apparatus and full firefighting gear. Decomposition and combustion products may be toxic. Cool fire-exposed containers with cold water spray. Heat will cause pressure build up and may cause explosive rupture. Move containers from fire area if safe to do so. A vapor suppressing foam may be used to reduce vapors.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Take precautionary measures against static discharges. All equipment should be properly grounded to prevent static discharge. Eliminate ignition sources. Pay attention for possible flashback.
Environmental Precautions.....	Avoid dispersal of spilled material and runoff coming in contact with soil, waterways, drains and sewers.
Methods and materials for containment and cleaning up	Caution - spillages may be slippery. Ventilate area. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use an inert substance to contain and absorb spilled material. Shovel to properly identified salvage drum. Seal salvage drum for disposal. Methods and materials for containment and cleaning up.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Corrosive material. Keep from freezing. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using, do not eat or drink. Wash hands before eating, drinking, or smoking. Keep container closed when not in use. Empty product containers may retain product residue and can be dangerous. Keep away from food. Employees should wash their hands and face before eating or drinking. Ground and bond connection when transferring material. Ground and bond container and receiving equipment. Handle containers with care. Handle in accordance with good industrial hygiene and safety practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a well ventilated area. Store away from incompatible materials. Store away from direct sunlight. Store in a dry cool well ventilated area. Do not freeze. Use good industrial handling and hygiene practices.

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Acetic acid	10 ppm Not available	15 ppm	10 ppm; 25 mg/m ³	Not available		Not available
Appropriate engineering controls.....	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.					
Individual protection measures, such as personal protective equipment:						
Eye/Type.....	Chemical safety goggles should be worn to prevent contact with the eyes. Consult your supplier of personal protective equipment for additional instructions on proper usage.					
Gloves/Type.....	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Consult your supplier of personal protective equipment for additional instructions on proper usage.					
Footwear/Type.....	Wear safety boots per local regulations. Consult your supplier of personal protective equipment for additional instructions on proper usage.					
Clothing/Type	Chemical resistant clothing. Consult your supplier of personal protective equipment for additional instructions on proper usage.					
Respiratory/Type.....	NIOSH/MSHA approved respirator recommended if mist exposure limit exceeded. Consult your supplier of personal protective equipment for additional instructions on proper usage.					
Other/Type.....	Emergency eye wash station and shower should be available. Anyone handling this product should wash their hands and face before eating, drinking or using tobacco products. Handle in accordance with good industrial hygiene and safety practice. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / physical state	Liquid.
Colour.....	Clear.
Odour.....	Strong smell of vinegar.
Odour Threshold (ppm).....	>0.21ppm for 100% Acetic Acid.
pH.....	Not available.
Melting/Freezing Point.....	Not available.
Initial Boiling Point/Boiling Range.....	Not available.
Flash Point (deg C), Method.....	Not available.
Evaporation Rate.....	Not available.
Flammability (solid/gas).....	Not applicable.
Upper Flammable Limit (% Vol).....	Not available.
Lower Flammable Limit (% Vol).....	Not available.
Vapour Pressure (mm Hg).....	Not available.
Vapour Density (Air=1).....	Not available.
Relative Density/Specific Gravity.....	1.004.
Solubility.....	Complete.
Partition coefficient — n-octanol/water.....	Not available.
Auto Ignition Temperature (deg C).....	Not available.
Decomposition temperature.....	Not available.
Viscosity.....	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity.....	This material is considered to be non-reactive under normal use conditions.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	No additional remark.
Conditions to avoid, including static discharge, shock or vibration	Static discharge. Avoid all sources of ignition: heat, sparks, open flame. Avoid direct sunlight.
Incompatible materials.....	Strong alkalis. Strong oxidizing agents. Aldehydes. Ammonium nitrates. Carbonates. Oxides. Common metals and their alloys. Perchloric acid. Phosphates. Sodium peroxide.
Hazardous decomposition products.....	Carbon dioxide, carbon monoxide. Other toxic or irritating fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

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INGREDIENTS	LC50	LD50
Acetic acid	5620 ppm/1hr (rat)	3310 mg/kg (oral, rat); 1060 µL/kg (dermal, rabbit)
Route of Exposure.....	Skin contact, eye contact, inhalation, ingestion.	
Symptoms related to the physical, chemical and toxicological characteristics		
Effects of Acute Exposure.....	Inhalation symptoms may include nasal discharge, hoarseness, coughing, chest pain and breathing. Accumulation of fluid in the lungs (pulmonary edema) may occur. Causes severe eye burns. May cause permanent damage to the eyes. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering and/or change of vision. Harmful if absorbed through the skin . Causes skin burns. Symptoms of exposure may include: Redness or discoloration, swelling, itching, burning or blistering of skin. Causes digestive tract burns. Symptoms of exposure may include: Inflammation of mouth, throat, esophagus and/or stomach. . Nausea, vomiting, loss of appetite, gastrointestinal irritation and/ or diarrhea.	
Effects of Chronic Exposure.....	Prolonged or repeated contact may cause skin sensitization.	
Aspiration Hazard.....	No available information.	
Serious eye damage/irritation.....	Causes severe eye burns and may cause permanent damage.	
Skin corrosion/irritation.....	Harmful if absorbed through the skin. Causes severe burns.	
Carcinogenicity.....	No available information.	
Reproductive Toxicity.....	No available information.	
Mutagenicity.....	No available information.	
Sensitization.....	No available information.	
Specific Target Organ Toxicity - single exposure	No available information.	
Specific Target Organ Toxicity - repeated exposure	No available information.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Harmful to aquatic life with long lasting effects .
Persistence and degradability.....	Product data not available.
Bioaccumulation Potential.....	No product data available.
Mobility in soil.....	No product data available.
Other adverse effects.....	Product data not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number.....	UN1760.
Proper shipping name.....	Corrosive Liquid, n.o.s. (acetic acid).
Class.....	8.
Packaging Group.....	II.
Marine Pollutant.....	No.
Limited Quantity.....	1 Litre.
Proof of Classification.....	In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

CEPA Status.....	All components of this product are listed on the Domestic Substance List (DSL) or they are exempt.
Environmental Emergency Regulations....	This product has substances listed in the Environmental Emergencies Regulations. (CAS # 64-19-7).
CMP Categorization.....	Met the criteria under subsection 73(1). Additional reporting may be required. (CAS # 100-52-7). (CAS # 100-51-6).
TSCA Inventory Status.....	All components are listed on the TSCA or exempt.

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SECTION 16: OTHER INFORMATION

Prepared by Trivalent Data Systems Ltd. <http://www.trivalent.com> .
Disclaimer..... Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. .

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data sheet